

# Agronomy for Sustainable Development

Volume 33 · Number 3 · July 2013

## RESEARCH ARTICLES

### **Positive effects of the Greek economic crisis on livestock farmer behaviour**

C. Karelakis · Z. Abas · K. Galanopoulos · K. Polymeros 445

### **Withdrawal from organic farming in France**

S. Madelrieux · F. Alavoine-Mornas 457

### **A simple technique to eliminate ethylene emissions from biochar amendment in agriculture**

W. Fulton · M. Gray · F. Prahl · M. Kleber 469

### **Enhanced wheat yield by biochar addition under different mineral fertilization levels**

J.A. Albuquerque · P. Salazar · V. Barrón · J. Torrent · M.C. del Campillo · A. Gallardo · R. Villar 475

### **Positive effect of climate change on cotton in 2050 by CO<sub>2</sub> enrichment and conservation agriculture in Cameroon**

E. Gérardeaux · B. Sultan · O. Palai · C. Guiziou · P. Oettli · K. Naudin 485

### **Positive effects of elevated CO<sub>2</sub> and its interaction with nitrogen on safflower physiology and growth**

S.J. Mohamed · A.J. Jellings · M.P. Fuller 497

### **Shallow mixing of surface soil and liquid dairy manure conserves nitrogen while retaining surface residue**

Q.M. Ketterings · G. Godwin · P. Barney · J.R. Lawrence · B. Aldrich · T. Kilcer · K.J. Czymmek · B. Gloy 507

### **Cultivar diversity has great potential to increase yield of feed barley**

S.J. Himanen · E. Ketoja · K. Hakala · R.P. Rötter · T. Salo · H. Kahiluoto 519

### **Unexpected absence of control of rubber tree growth by soil water shortage in dry subhumid climate**

C. Clermont-Dauphin · N. Suvannang · C. Hammecker · V. Cheylan · P. Pongwichian · F.C. Do 531

### **A new sludge-derived organo-mineral fertilizer gives similar crop yields as conventional fertilizers**

L.K. Deeks · K. Chaney · C. Murray · R. Sakrabani · S. Gedara · M.S. Le · S. Tyrrel · M. Pawlett · R. Read · G.H. Smith 539

### **Nonchemical weeding of medicinal and aromatic plants**

A. Carrubba · M. Militello 551

### **Farmers' adoptability of integrated pest management of cotton revealed by a new methodology**

R. Peshin 563

### **Effective microorganisms and compost favor nematodes in wheat crops**

C. Hu · Y. Qi 573

### **Life cycle analysis reveals higher agroecological benefits of organic and low-input apple production**

A. Alaphilippe · S. Simon · L. Brun · F. Hayer · G. Gaillard 581

### **Stockless organic farming: strengths and weaknesses evidenced by a multicriteria sustainability assessment model**

B. Colomb · M. Carof · A. Aveline · J.-E. Bergez 593

### **Farm-scale models built with farmers converting and converted to organic farming**

L. Gouttenoire · S. Cournot · S. Ingrand 609

### **Novel methods to assess environmental, economic, and social sustainability of main agricultural regions in China**

F. Liu · H. Zhang 621